



U.S. DEPARTMENT OF
ENERGY

*Presentation to the SRS
CAB Strategy & Legacy Management Committee*

SRS Performance Measures Update

April 20, 2010

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EM *Environmental Management*
safety ♦ performance ♦ cleanup ♦ closure

Purpose

- **In response to SRS CAB Recommendation # 265, to provide a review of the SRS site specific quarterly Performance Measures Report for 2nd Quarter FY 2010.**



Background

- **The Site specific Performance Measures Report is grouped into three categories:**
 - Liquid Waste
 - Nuclear Materials
 - Recovery Act (ARRA)

- **Each measure attempts to provide a complete perspective:**
 - History - Cumulative thru 2009
 - FY 2010 - Actuals and Target
 - End State Target



SRS Performance Measures – 2nd Quarter FY 2010

<u>Liquid Waste</u>		FY 2009		FY 2010		Cum thru 2010	End State (Rev. 15 System Plan)
Measure	Unit of Measure	Actual	Cum thru 2009	Actual FYTD	Target Annual		
				3/31/10		3/31/10	
DWPF Canisters Poured & Tested							
Canisters Produced	Canisters	196	2,795	103	190	2,898	7,235
Canister Storage Spaces Available	Spaces		1,795	1,692	1,605	1,692	TBD ¹
Tank Preparation and Closure							
Bulk Waste Removal Complete	Tanks	0	7	0	2	7	51
Heel Removal Campaign Complete	Tanks	2	4	0	2	4	51
Annuli Prepared for Closure	Tanks	0	0	0	2	0	43 (8=NA)
Three Agency Preliminary Approval ²	Tanks	2	4	0	2	4	51
Three Agency Final Approval ²	Tanks	0	2	0	2	2	51
Tanks Isolated	Tanks	0	2	0	1	2	51
Operationally Closed	Tanks	0	2	0	0	2	51
SPF Salt Solution Processed							
Salt Solution Processed	k Gallons	1,524	2,967	510	2,220	3,477	120,690
Radioactivity							
Curies Stabilized in Canisters ³	k Curies	6,880	23,800	3,980	7,254	27,780	385,000

Notes:

1. GWSB # 3 Contingency Capacity - TBD
2. Approval to Cease Waste Removal
3. Estimate based on Sludge Batch Sampling

SRS Performance Measures – 2nd Quarter FY 2010

<u>Nuclear Materials</u>		FY 2009		FY 2010		Cum thru 2010	End State
<i>Measure</i>	Unit of Measure	Actual	Cum thru 2009	Actual FYTD	Target Annual		
				3/31/10		4/1/10	
Plutonium & Enriched Uranium							
Plutonium Dissolved in H-Area for Disposition ¹	Containers	8	42	10	31	52	967 ²
LEU Shipped to TVA Vendor (LEU = HEU blended with NU) ³	Trailers	11	297	14	20	311	564

Notes:

1. Quantities Since 2008
2. Pre- Decisional Quantity
3. LEU = Low Enriched Uranium
HEU = Highly Enriched Uranium
NU = Natural Uranium

DOE-SR Performance Measures – 2nd Quarter FY 2010

Recovery Act

Jobs
Saved / Created
3,225

Measure	Unit of Measure	2009 Actual	FY 2010		Cum thru 2010	ARRA End State
			Actual FYTD	Target Annual		
			3/31/10			
Funding Spent						
SRNS		225,506	255,699	520,093	481,205	1,414,000
SRR		<u>104</u>	<u>28,262</u>	<u>140,000</u>	<u>28,366</u>	<u>200,000</u>
Total	\$ (000)	225,610	283,961	660,093	509,571	1,614,000

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SRS Performance Measures – 2nd Quarter FY 2010

<u>Recovery Act</u>		Unit of Measure	2009 Actual	FY 2010		ARRA Cum thru 2010	ARRA End State	Total Cum thru 2010¹	Total End State
Measure				Actual FYTD	Target Annual				
				3/31/10		3/31/10		3/31/10	
Solid Waste Disposition									
RH-TRU Waste Dispositioned	Cubic Meters	17		0	5	17	39		
CH-TRU Waste Dispositioned		<u>281</u>		<u>350</u>	<u>739</u>	<u>631</u>	<u>4,161</u>		
Total TRU Dispositioned		298		350	744	648	4,200	6,589	15,658
PAD 1 - % TRU Waste Removed	%	0%		33%	100%	33%	100%		
PAD 1 - % TRU Waste Disposed	%	0%		0%	20%	0%	90%		
MLLW Disposed (Legacy and NGW ²)	Cubic Meters	325		40	359	365	1,075		
LLW ³ Disposed (Legacy and NGW ²)		<u>2,067</u>		<u>3,678</u>	<u>15,852</u>	<u>5,745</u>	<u>27,832</u>		
Total MLLW & LLW		2,392		3,718	16,211	6,110	28,907	109,282	140,856
Nuclear Material Disposition									
Depleted Uranium Oxide Shipped	Drums	0		5,409	15,606	5,409	15,606	5,409	15,606

Notes:

1. Total Cum = Pre-ARRA Cum + ARRA Cum
2. NGW = Newly Generated Waste
3. Includes DUO

SRS Performance Measures – 2nd Quarter FY 2010

Recovery Act		Unit of Measure	2009 Actual	FY 2010		ARRA Cum thru 2010	ARRA End State	Total Cum thru 2010 ¹	Total End State	
Measure				Actual FYTD	Target Annual					
				3/31/10		3/31/10		3/31/10		
Soil & Water Remediation										
Characterized for Remediation	Waste Sites	4		7	13	11	25			
Remediation Systems Installed	Systems	2		0	8	2	14			
Remediations Completed	Release Sites	2		0	0	2	11	368	515	
Ground Plumes Remediated	# of Plumes	1		0	5	1	8			
Deactivation & Decommissioning										
Facilities - D&D Completed		}		No Appreciable Completions Scheduled for 2010 Measure to be tracked in 2011						
Industrial Facilities								2	232	759
Radioactive Facilities								16	7	40
Total Facilities D&D'd	Facilities							18	239	799
Reactors Decommissioned	# Completed	0		0	1	0	3			
Operational Footprint Reduction										
Site Remediated/ Footprint Reduction	Acres	0		0	45	0	108,856			

Notes:

1. Total Cum = Pre-ARRA Cum + ARRA Cum

Summary and Path Forward

- The Site specific Performance Measures Report will be provided at the May Meeting.
- Suggestions from the CAB for any improvements are welcomed.



Acronyms

ARRA	American Recovery & Reinvestment Act
GWSB	Glass Waste Storage Building
HW	Hazardous Waste
LEU	Low Enriched Uranium
HEU	Highly Enriched Uranium
LLW	Low Level Waste
LLMW	Low Level Mixed Waste
MLLW	Mixed Low level Waste
NU	Natural Uranium
SCDHEC	South Carolina Dept of Health & Environmental Control
SRNS	Savannah River Nuclear Solutions
SRR	Savannah River Remediation
SWPF	Salt Waste Processing Facility
TRU	Transuranic Waste
TVA	Tennessee Valley Authority

